Swathi Reddy

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SUMMARY

Results-driven Software Engineer with 5 years of experience in full-stack development, specializing in React.js, Redux, Node.js, Spring Boot, and PostgreSQL. Proficient in building scalable, responsive web applications while ensuring optimal UI/UX design and API integration. Strong background in performance optimization, cloud deployment (Azure, Docker), and database management. Passionate about developing high-performance applications in fast-paced, innovative environments.

Education

Master of Science in Computer Science　　　　　　　　　　　　　　　　　　Jan 2024 - April 2025
University of Bridgeport, CT　　　　　　　　　　　　　　　　　　　　　　　　　GPA: 3.8/4.0
Coursework: Algorithms, Object-Oriented Programming, Web Development, NLP LLMs, Database Systems.

Technologies

Languages Web Technologies: JavaScript (ES6), Java, SQL, HTML5, CSS3, Redux, Styled Components, Bootstrap, Tailwind CSS.
Frameworks Libraries: React.js, Node.js, Express.js, Spring Boot, Hibernate.
Databases: PostgreSQL, MySQL (Relational), MongoDB (NoSQL)
DevOps Tools: GitHub, Docker, Netlify, Render, Microsoft Azure, Maven.

Experience

Teaching Assistant, University Of Bridgeport - Bridgeport, CT-06604　　　　Sep 2024 – Present

- Mentored 50+ students in Natural Language Processing (NLP) Large Language Models (LLMs), improving comprehension and project implementation.
- Conducted lab sessions and guided real-world project applications, assisting in an 25% increase in student project completion rates.
- Collaborated with faculty on LLM research initiatives.

Software Developer, E3, Rubus Digital – Hyderbad, India　　　　　　　April 2023 - December 2023

- Developed scalable web applications for industrial process management, improving system efficiency by 30%. API integrations for real-time data monitoring, optimizing backend response times by 40%.
- Enhanced UI performance by 30% through optimized state management in React.js Redux.

Software Developer, E2, Envision Enterprise Solutions Pvt Ltd – Hyderbad, India　　July 2020 - March 2023

- Built and deployed full-stack enterprise solutions using Java Spring Boot, React.js, and PostgreSQL.
- Spearheaded application optimization, reducing database query times by 50% and enhancing scalability.
- Integrated Dockerized microservices, reducing deployment downtime by 30%.

Associate Software Developer,Suraaga Technologies Pvt Ltd – Hyderbad, India　　May 2019 - June 2020

- Designed responsive UI components with React.js Tailwind CSS, improving accessibility and user engagement by 20%.
- Assisted in backend API development and database schema optimization for performance enhancement.

Projects

Movies Review and Trailer Application with Java Spring Boot, React, and MongoDB　　Nov 2024

- Developed a movie review platform with REST APIs for CRUD operations third-party trailer integrations.
- Implemented server-side pagination to optimize review handling efficiency for 100,000+ reviews.
- Deployed frontend on Netlify and backend on Render, ensuring seamless CI/CD workflows and 99.9% uptime.

Industrial Process Management Applications (ARJAS STEEL, RAK CERAMICS, JSW CEMENTS, SAGAR CEMENTS)　　Sep 2020 - Dec 2023

- Developed Energy Management Systems (EMS) to monitor and optimize energy consumption, leading to a 20% reduction in operational costs.
- Implemented E-Log books for digital record-keeping, improving data accuracy and accessibility for real-time process tracking.
- Designed trend analysis dashboards to visualize key performance indicators, increasing process efficiency by 25%.
- Built downtime logging systems to track machine failures, reducing average downtime by 30% through predictive maintenance insights.
- Automated process reports and analytics, increasing transparency and improving decision-making efficiency by 40%.